

Serial No. 10/082,303

ASA-1068

IN THE CLAIMS

1-4. (Canceled)

5. (Currently Amended) A ~~The~~ storage subsystem according to claim 4, wherein comprising a plurality of storage devices connected to a host computer, wherein
a first storage device included in said plurality of storage devices comprises:
_____ means for receiving a request for information processing for said storage subsystem, said information processing being executed in said host computer;
_____ means for transferring the received request to a second storage device included in said plurality of storage devices; and
_____ means for executing information processing indicated by the received request when the received request should be executed by said first storage device based on cooperation control information which indicates a the request to be executed by the first storage device,
_____ wherein each of the plurality of storage devices control RAID level cooperatively,
_____ said second storage device comprises:
_____ means for receiving the transferred request; and
_____ means for executing information processing

Serial No. 10/082,303

ASA-1068

indicated by the transferred request when the transferred request should be executed by said second storage device based on the cooperation control information which indicates a request to be executed by said second storage device,

wherein the first and second storage device control RAID level 4 or 5,

wherein, if the request is a data write request, the first storage device receives data connection with the data write request, stores the data, makes another data to be used for making parity data in the second storage device and sends the another data to the second storage device,

wherein the second storage device receives the another data, makes parity data based on the another data, and stores the parity data,

wherein in said first storage device, said means for transferring a request adds information, which indicates said first storage device, to the request to be transferred, + and

wherein said second storage device further comprises means for suppressing another transfer of the transferred request based on the added information that indicates said first storage device.

6-12. (Canceled)

Serial No. 10/082,303

ASA-1068

13. (Currently Amended) A ~~The~~ storage subsystem according to claim 12, wherein comprising a plurality of storage devices connected to a host computer, wherein
a first storage device included in said plurality of storage devices comprises:
a receiver connected to the host computer, for receiving a request for information processing for said storage subsystem;
a transceiver connected to said receiver and a second storage device included in the plurality of storage devices, for transferring the received request to the second storage device; and
a processor for executing the information processing indicated by the received request when the received request should be executed by said first storage device based on cooperation control information which indicates the request to be executed by the first storage device,
wherein each of the plurality of storage devices control RAID level cooperatively;
a third storage device included in the plurality of the storage devices which is connected to the second storage device, wherein
said third storage device comprises:

Serial No. 10/082,303

ASA-1068

a second receiver connected to said transceiver for receiving the transferred request; and

a second processor connected to said second receiver for executing the information processing indicated by the transferred request when the transferred request should be executed by said third storage device based on the cooperation control information which indicates a request to be executed,

wherein the first, second and third storage devices control RAID level 4 or 5,

wherein if the request is a data write request and the second storage device fails, the first storage device receives data connection with the data write request, stores the data, makes another data to be used for making parity data in the third storage device and sends the another data to the third storage device,

wherein the third storage device receives the another data, makes parity data based on the another data, and stores the parity data,

wherein in said first storage device, said transceiver adds information, which indicates said first storage device, to the request to be transferred, and

wherein said second processor suppresses another transfer of the transferred request based on the added information that indicates said first storage device.

Serial No. 10/082,303

ASA-1068

14-20. (Canceled)

21. (Currently Amended) A The storage control method according to claim 20, wherein which uses a storage subsystem comprising a plurality of storage devices connected to a host computer and includes a first storage device, wherein
_____ said first storage device executes:
_____ a step of receiving a request for information processing for said storage subsystem, said information processing being executed in said host computer;
_____ a step of transferring the received request to a second storage device included in said plurality of storage devices; and
_____ a step of executing information processing indicated by the received request when the received request should be executed by said first storage device based on cooperation control information which indicates a request to be executed by the first storage device,
_____ wherein each of the plurality of storage devices control RAID level cooperatively,
_____ said second storage device executes:
_____ a step of receiving the transferred request; and
_____ a step of executing information processing

Serial No. 10/082,303

ASA-1068

indicated by the transferred request when the transferred request should be executed by said second storage device based on the cooperation control information which indicates a request to be executed by said second storage device,

wherein the first and second storage device control RAID level 4 or 5,

wherein, if the request is a data write request, the first storage device receives data connection with the data write request, stores the data, makes another data to be used for making parity data in the second storage device and sends the another data to be second storage device,

wherein the second storage device received the another data, makes parity data based on the another data, and stores the parity data,

wherein in said first storage device, said step of transferring a request adds information, which indicates said first storage device, to the request to be transferred, and

wherein said second storage device further executes a step of suppressing another transfer of the transferred request based on the added information that indicates said first storage device.

22-24. Canceled.

Serial No. 10/082,303

ASA-1068

25. (Previously Presented) A storage subsystem comprising a plurality of storage devices connected to a host computer, wherein:

a first storage device included in said plurality of storage devices comprises:

means for receiving a request for information processing for said storage subsystem, said information processing being executed in said host computer;

means for transferring the received request to a second storage device included in said plurality of storage devices;

means for executing information processing indicated by the received request when the received request should be executed by said first storage device;

said second storage device comprises:

means for receiving the transferred request; and

means for executing information processing indicated by the transferred request when the transferred request should be executed by said second storage device;

in said first storage device, said means for transferring a request adds information, which indicates said first storage device, to the request to be transferred; and

said second storage device further comprises

Serial No. 10/082,303

ASA-1068

means for suppressing another transfer of the transferred request based on the added information that indicates said first storage device.

26. (Previously Presented) A storage subsystem comprising a plurality of storage devices connected to a host computer, wherein:

a first storage device included in said plurality of storage devices comprises:

a receiver connected to the host computer, for receiving a request for information processing for said storage subsystem, said information processing being executed in said host computer;

a transceiver connected to said receiver and a second storage device included in the plurality of storage devices, for transferring the received request to the second storage device; and

a processor for executing the information processing indicated by the received request when the received request should be executed by said first storage device;

said second storage device comprises:

Serial No. 10/082,303

ASA-1068

a second receiver connected to said transceiver for receiving the transferred request; and

a second processor connected to said second receiver for executing the information processing indicated by the transferred request when the transferred request should be executed by said second storage device;

in said first storage device, said transceiver adds information, which indicates said first storage device, to the request to be transferred; and

said second processor suppresses another transfer of the transferred request based on the added information that indicates said first storage device.

27. (Previously Presented) A storage control method which uses a storage subsystem comprising a plurality of storage devices connected to a host computer and includes a first storage device, wherein

said first storage device executes:

a step of receiving a request for information processing for said storage subsystem, said information processing being executed in said host computer;

Serial No. 10/082,303

ASA-1068

a step of transferring the received request to a second storage device included in said plurality of storage devices; and

a step of executing information processing indicated by the received request when the received request should be executed by said first storage device;

said second storage device executes:

a step of receiving the transferred request; and

a step of executing information processing indicated by the transferred request when the transferred request should be executed by said second storage device;

in said first storage device, said step of transferring a request adds information, which indicates said first storage device, to the request to be transferred; and

said second storage device further executes a step of suppressing another transfer of the transferred request based on the added information that indicates said first storage device.